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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Claiborne County Schools

Prepared By:
Tommy Walker

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-16

Plan Type:
Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

Property Name: Section 14-T13N-R2E

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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LANDOWNER INFORMATION

Name: Claiborne County Schools
Mailing Address: P.O. Box 337
City, State, Zip: Port Gibson, MS 39150
Country: United States of America
Contact Numbers: Home Number: 601-437-4352
Office Number:
Fax Number:

E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Tommy Walker , Forester II
Forester Number: 01473
Street Address: P.O. Box 77
City, State, Zip: Vicksburg, MS 39181
Contact Numbers: Office Number: 601-638-1227
Fax Number:

E-mail Address:

PROPERTY LOCATION

County:	Claiborne	Total Acres:	384	Latitude:	-91	Longitude:	32.1
Section:	14	Township:	13N	Range:	2E		

DISCLAIMER

This plan is intended to be flexible. It may be modified to meet changes in economic conditions, management goals, or other circumstances. The figures in this plan are only estimates. They can and will change. Therefore, any plans or budgets that use these figures should be tempered with that thought.

INTRODUCTION

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

OBJECTIVES

Timber Production

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices.

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Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

Wildlife Management - General

The goal is to provide a diversity of habitats suitable for a variety of game and non-game wildlife species. Habitat management will focus on developing a variety of food, cover, water, and space. This will be accomplished by establishing and maintaining access roads and firelanes, providing openings within the forest, and the management of trees located within Streamside Management Zones.

PROPERTY DESCRIPTION

General Property Information

This section is located approximately 6 miles southwest of Yokena on the Claiborne/Warren County line, in the northwestern part of the county. It is commonly known as the Bogue Desha section, since Little Bogue Desha forms the border of the section between Warren and Claiborne Counties. The Claiborne County side of the section contains approximately 384 acres of land. There are 362 acres of forest land. The 22 acres of nonforest land is primarily access roads, water, and a hunting camp. Togo Road, which is a private gravel road, is the primary access road.

The terrain on this section is flat. This section is part of the Mississippi River Delta. The timber type is Delta Hardwood. It frequently receives backwater flooding from the Mississippi River and the Big Black River.

Water Resources

The Little Bogue Desha and the Big Black River are the primary water resources for this property. All water resources will be managed in accordance with Mississippi's Best Management Practices.

Timber Production

The goal is to maximize the production of high quality timber. This will be accomplished through the application of timely thinning and other silvicultural practices designed to enhance timber quality and growth. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

Threatened and Endangered Species

No threatened and endangered species were identified during the reconnaissance and evaluation of your property.

Interaction with Surrounding Property

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

Soils General

Soils were evaluated on the property to determine the suitability of the site for the proposed activities. Forest practices were planned so as to minimize erosion or other adverse effects on the soil. The following soils are identified for this property: Bowdre, Tunica, and Crevasse clays and Commerce silt loam are the primary soils on this property located in the Mississippi River Delta. These soils are very productive hardwood sites with site indexes over 90' for Cherrybark Oak. However, due to flooding, Cherrybark Oak is not the best species for this site. The primary tree species for this tract are Willow Oak, Water Oak, Nuttall Oak, Green Ash, Sweet Pecan, Sweetgum, Cottonwood, and Sugarberry. The site index for Willow Oak is 90'.

Archeological and Cultural Resources

These areas can range from churches, old cemeteries, natural springs, Indian mounds to home sites or other areas of historical significance. A hunting camp on the north end of the section is the only area of cultural significance found on this property.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A healthy, vigorously growing stand is the best defense to an attack from a variety of forest insects, plants and pathogens.

Insects and Diseases

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

- Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

Fire Protection

Your forest should be protected from wildfire at all times. The best way to protect your investment is by establishing and maintaining firebreaks around the property. Guidelines for establishment and maintenance of firebreaks may be found in Mississippi Forestry Commission publication #107, *Mississippi's Best Management Practices*.

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Grazing

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to all tree planting areas.

Boundary Lines

The Mississippi Forestry Commission has been maintaining the property boundaries on this section on a routine basis for many years. The property boundaries will be painted orange on a 4 year rotation, beginning in 2013.

Water Quality Protection

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This can best be achieved by implementation of Best Management Practices in all aspects of the management of the property.

Aesthetics

This tract is in a rural part of the county. Therefore, aesthetics should not be a high priority.

Ecological Restoration

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

Wildlife Mgt. Target Species

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management can focus on providing food, cover, water, and space to facilitate the target species.

Environmental Education

Environmental educational goals can be to provide educational opportunities for children and adults through the development of items such as nature trails with tree identification markers, wildlife viewing areas, picnic areas, parking, public restroom facilities. There are no current plans to develop any of these items on this property.

Wildlife Management General

The goal is to provide a diversity of habitats suited for a variety of game and non-game wildlife species. Habitat management will focus on providing a variety of food, cover, water, and space. This will be accomplished, in part, by establishing and maintaining access roads and firelanes, providing openings within the forest, and leaving streamside management zones (SMZs).

This section currently has approximately 22 acres of streamside management zones. Also, wildlife is considered when determining the size and placement of regeneration harvests. Timber loading areas often make good areas for wildlife food plots. There are approximately 2 acres of wildlife food plots currently being maintained by the leaseholder.

Timber Management

Timber management goals for this property are to manage timber resources in such a manner as to maximize timber production on a sustained yield basis.

Recreation

The primary recreational use of this property is to generate income through a hunting lease.

SOIL TYPES

Commerce

The Commerce component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Bowdre

The Bowdre component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on alluvial plains. The parent material consists of clayey alluvium derived from sedimentary rock over loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

STRATA

Strata 1

Strata Description

Strata 1 is comprised of Stands 2, 3, and 8. It contains a total of 149 acres of Delta hardwood sawtimber. Much of the timber is near maturity. The species composition is good and the volume per acre is good. The terrain is flat to undulating.

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Strata Recommendations

The long term goal for this strata is to thin it and then to clearcut and regenerate it with hardwood over the next 15-20 years.

Activity Recommendations

In 2013, Strata 1, Stands 2 and 8 should be thinned along with Strata 4, Stand 4. The total sale area is 100 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2015, Strata 1, Stand 3 should be thinned along with Strata 4, Stand 9. The total sale area is 68 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2019, Strata 1, Stands 2 and 8 should be clearcut and regenerated. The total sale area is 88 acres. After the harvest, the natural regeneration in the sale area should be evaluated to determine whether or not site prep and planting will be necessary.

Strata 2

Strata Description

Strata 2 is comprised of Stand 7. It contains a total of 56 acres of fresh clearcut. Due to prolonged flooding of the Mississippi River last summer, very little desirable natural regeneration exists.

Strata Recommendations

The long term goal for this strata is to site prep and plant hardwood. No other activities should be necessary during the life of this plan.

Activity Recommendations

In 2012, Strata 2 should be chemically site prepared with a chemical rate that should not harm any existing desirable regeneration, and then handplanted with Nuttall Oak, Water Oak, Willow Oak, and/or Green Ash at a rate of 302 trees per acre (12'x12' spacing). A survival check will be conducted during the following fall/winter to ensure adequate stocking.

Strata 3

Strata Description

Strata 3 is comprised of Stand 1. It contains a total of 135 acres of Delta hardwood sawtimber. Much of the timber is near maturity. The species composition is good and the volume per acre is good. The terrain is flat to undulating.

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Strata Recommendations

The long term goal for this strata is to thin it and then to clearcut and regenerate it with hardwood over the next 15-20 years.

Activity Recommendations

In 2017, Strata 3 should be thinned along with Strata 4, Stand 10. The total sale area is 139 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

Strata 4

Strata Description

Strata 4 is comprised of Stands 4, 9, and 10. It contains a total of 22 acres of Delta hardwood sawtimber that is located adjacent to streams. Much of the timber is near maturity. The species composition is good and the volume per acre is good. The terrain is flat to undulating.

Strata Recommendations

The long term goal for this strata is to thin it, and then clearcut and regenerate all of this strata that is not needed as a Streamside Management Zone as adjacent stands are harvested over the next 15-20 years. The areas that are being maintained as SMZs can be thinned as adjacent stands are harvested.

Activity Recommendations

In 2013, Strata 1, Stands 2 and 8 should be thinned along with Strata 4, Stand 4. The total sale area is 100 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2015, Strata 1, Stand 3 should be thinned along with Strata 4, Stand 9. The total sale area is 68 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2017, Strata 3 should be thinned along with Strata 4, Stand 10. The total sale area is 139 acres. This thinning will be a crown thinning. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

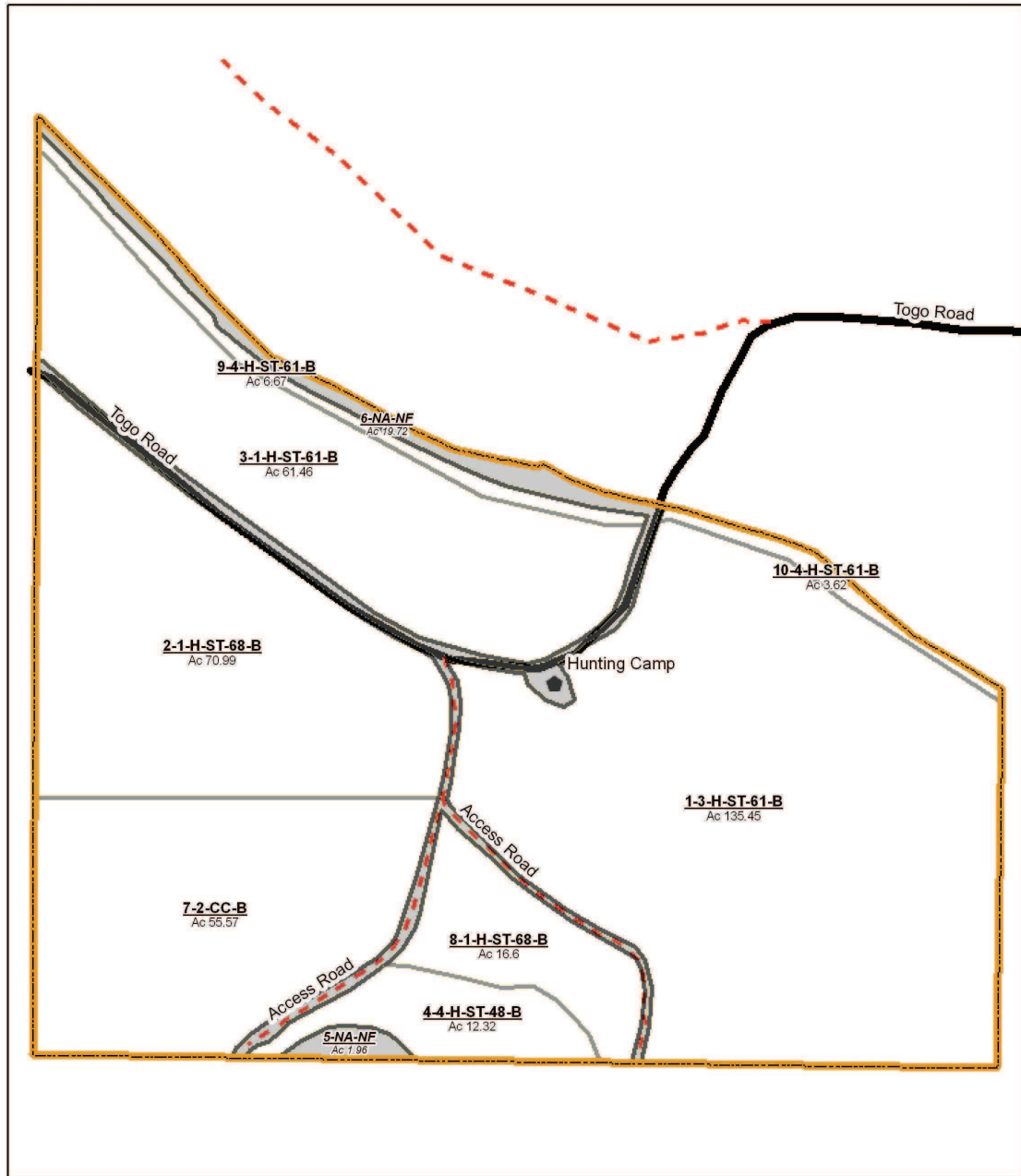
This section has 2.3 miles of boundary lines and around 1.5 miles of woods roads to maintain.

Line Recommendations

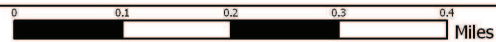
The property boundaries will be painted on a 4 year rotation beginning in 2013. The woods roads will be maintained as firebreaks on an "As Needed" basis.



STAND MAP - FY2012
 Claiborne County Schools
 Section 14, T13N, R2E, Claiborne County, Ms.
 384.37 Acres



(12/12/2011)



Prepared by: Tommy Walker



LEGEND for Section 14, T13N, R2E, Claiborne County, Ms.

Property

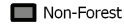


Property

Category 1: Stands

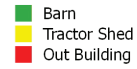


Category 3: Non-Forest Stands



Non-Forest

Structures



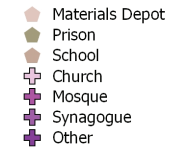
Barn
Tractor Shed
Out Building

Structures (cont)



Single-Family
Multi-Family
Camp House
Club House
Office Building
Manufacturing
Warehouse
Chicken House
Horse Stall
Milking Parlor
Hog Pen
Blind
Stand
Hospital
Nursing Home
Dr. Clinic
State Facility
Office
Work Center

Structures (cont)



Materials Depot
Prison
School
Church
Mosque
Synagogue
Other

Property Roads/Trails



Drive Ways
Access Road
Logging Road
Skid Trail
Farm Road
Hiking Trail
Horseback Riding Trail

Stand Activity Summary for
CLAIBORNE COUNTY SCHOOLS
14 13N 2E

Filters Applied: County: Claiborne
Client Class: School Trust Land
District: Capital District
Client: CLAIBORNE COUNTY S
STR: 14 13N 2E
Activity:
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012						
14 13N 2E	2	7	Regeneration, Artificial, Plant, Hand, Misc Hardwood	56	\$7,840.00	\$0.00
14 13N 2E	2	7	Site Preparation, Chemical, Broadcast, Aerial, Combination	56	\$3,360.00	\$0.00
Yearly Totals				112	\$11,200.00	\$0.00
2013						
14 13N 2E	1	2	Harvest, Mechanical, Thin, Machine, Misc Hardwood	71	\$2,485.00	\$37,275.00
14 13N 2E	1	8	Harvest, Mechanical, Thin, Machine, Misc Hardwood	17	\$595.00	\$8,925.00
14 13N 2E	4	4	Harvest, Mechanical, Thin, Machine, Misc Hardwood	12	\$420.00	\$6,300.00
Yearly Totals				100	\$3,500.00	\$52,500.00
2015						
14 13N 2E	1	3	Harvest, Mechanical, Thin, Machine, Misc Hardwood	61	\$2,135.00	\$32,025.00
14 13N 2E	4	9	Harvest, Mechanical, Thin, Machine, Misc Hardwood	7	\$245.00	\$3,675.00
Yearly Totals				68	\$2,380.00	\$35,700.00
2017						
14 13N 2E	3	1	Harvest, Mechanical, Thin, Machine, Misc Hardwood	135	\$4,725.00	\$70,875.00
14 13N 2E	4	10	Harvest, Mechanical, Thin, Machine, Misc Hardwood	4	\$140.00	\$2,100.00
Yearly Totals				139	\$4,865.00	\$72,975.00
2019						
14 13N 2E	1	2	Harvest, Mechanical, Final, Machine, Misc Hardwood	71	\$2,485.00	\$107,920.00

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
14 13N 2E	1	8	Harvest, Mechanical, Final, Machine, Misc Hardwood	17	\$595.00	\$25,925.00
Yearly Totals				88	\$3,080.00	\$133,845.00
Grand Totals				507	\$25,025.00	\$295,020.00